

**SAK Series  
SAK 6N BL**

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 16  
D-32758 Detmold  
Germany  
Fon: +49 5231 14-0  
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The Weidmüller SAK feed-through terminals satisfy the requirements of IEC 60947-1 and are available with rated cross-sections from 0.08 mm<sup>2</sup> to 240 mm<sup>2</sup>.

**General ordering data**

|            |                            |
|------------|----------------------------|
| Type       | SAK 6N BL                  |
| Order No.  | <a href="#">0193280000</a> |
| GTIN (EAN) | 4008190020644              |
| Qty.       | 100 pc(s).                 |

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## Technische Daten

### Dimensions and weights

|            |         |                          |         |
|------------|---------|--------------------------|---------|
| Length     | 40 mm   | Width                    | 8 mm    |
| Height     | 49 mm   | Height of lowest version | 51.5 mm |
| Net weight | 14.52 g |                          |         |

### Temperatures

|                                  |        |                                  |        |
|----------------------------------|--------|----------------------------------|--------|
| Operating temperature            |        | Storage temperature              |        |
| Continuous operating temp., min. | -50 °C | Continuous operating temp., max. | 100 °C |

### Rated data IECEx/ATEX

|                           |                          |                                |   |
|---------------------------|--------------------------|--------------------------------|---|
| Certificate No. (ATEX)    | KEMA97ATEX1798U          | ATEX certificate               | KEMA97ATEX1798U_d.pdf   |
| ATEX certificate          | KEMA97ATEX1798U_e.pdf    | Max. voltage (ATEX)            | 550 V   |
| Current (ATEX)            | 36 A                     | Wire cross section max. (ATEX) | 6 mm <sup>2</sup>   |
| Voltage, cross-connection |                          | Operating temperature range    | For operating temperature range see EC Design Test Certificate / IEC Ex-Certificate of Conformity |
|                           | CrossConnectionGuide.pdf |                                |   |
| Marking EN 60079-7        | Ex e II                  | Marking ATEX Directive 94/9/EC | II 2 G D  |

### Additional technical data

|                             |         |                     |                 |
|-----------------------------|---------|---------------------|-----------------|
| Explosion-tested version    | Yes     | Installation advice | Direct mounting |
| Number of similar terminals | 1       | Open sides          | right           |
| Type of mounting            | Snap-on |                     |                 |

### CSA ratings data

|                               |                |                               |       |
|-------------------------------|----------------|-------------------------------|-------|
| Certificate No. (CSA)         | 154685-1501714 | Voltage size C (CSA)          | 600 V |
| Current size C (CSA)          | 47 A           | Wire cross section max. (CSA) | 8 AWG |
| Wire cross section min. (CSA) | 20 AWG         |                               |       |

### Clampable wires (additional connection)

|   |                     |   |                   |
|---|---------------------|---|-------------------|
| Conductor cross-section, flexible plus plastic collar DIN 46228/1, further connection, min. | 0.5 mm <sup>2</sup> | Conductor cross-section, flexible plus plastic collar DIN 46228/1, further connection, max. | 6 mm <sup>2</sup> |
|---|---------------------|---|-------------------|

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## Technische Daten

### Clampable wires (rated connection)

|   |                     |   |                      |
|---|---------------------|---|----------------------|
| Type of connection  | Screw connection    | Stripping length  | 12 mm                |
| Blade size  | 4.0 x 0.8 mm        | Connection direction  | on side              |
| Number of connections   | 2                   | Clamping range, rated connection, min.  | 0.33 mm <sup>2</sup> |
| Clamping range, rated connection, max.  | 10 mm <sup>2</sup>  | Clamping screw  | M 3.5                |
| Tightening torque, min.   | 1.2 Nm              | Tightening torque, max.   | 1.6 Nm               |
| Torque level with DMS electric screwdriver  | 3                   | Gauge to IEC 60947-1  | A5                   |
| Wire connection cross section, solid core, max. rated connection  | 0.5 mm <sup>2</sup> | Wire connection cross section, solid core max. rated connection   | 10 mm <sup>2</sup>   |
| Wire connection cross section, stranded, rated connection, min.   | 0.5 mm <sup>2</sup> | Wire connection cross section, stranded, rated connection, max.   | 6 mm <sup>2</sup>    |
| Wire connection cross section, finely stranded, max.  | 10 mm <sup>2</sup>  | Wire connection cross-section, finely stranded, min.  | 0.5 mm <sup>2</sup>  |
| Wire connection cross section, finely stranded with wire-end ferrules DIN 46228/1, rated connection, min.                             | 0.5 mm <sup>2</sup> | Wire connection cross section, finely stranded with wire-end ferrules DIN 46228/1, rated connection, max.                     | 6 mm <sup>2</sup>    |
| Cross-section for connected conductor, finely stranded with wire-end ferrules and plastic collars DIN 46228/4, rated connection, min. | 0.5 mm <sup>2</sup> | Wire connection cross-section, finely stranded with wire-end ferrules and plastic collars DIN 46228/4, rated connection, max. | 6 mm <sup>2</sup>    |
| Twin wire-end ferrules, min.  | 0.5 mm <sup>2</sup> | Twin wire-end ferrules, max.  | 4 mm <sup>2</sup>    |
| Wire connection cross section AWG, min.   | AWG 22              |   |                      |

### Rated data

|                                 |                   |               |               |
|---------------------------------|-------------------|---------------|---------------|
| Rated cross-section             | 6 mm <sup>2</sup> | Rated voltage | 800 V         |
| Rated impulse withstand voltage | 8 kV              | Rated current | 41 A          |
| Current at maximum wires        | 57 A              | Standards     | IEC 60947-7-1 |
| Pollution severity              | 3                 |               |               |

### UL ratings data

|   |        |   |       |
|---|--------|---|-------|
| Certificate No. (UR)                    | E60693 | Voltage size C (UR)                     | 600 V |
| Current size C (UR)                     | 40 A   | Conductor size Factory wiring max. (UR) | 8 AWG |
| Conductor size Factory wiring min. (UR) | 22 AWG | Conductor size Field wiring max. (UR)   | 8 AWG |

### Material data

|                     |       |                           |       |
|---------------------|-------|---------------------------|-------|
| Insulating material | PA 66 | Material                  | PA 66 |
| Colour              | Blue  | UL 94 flammability rating | V-2   |

### System specifications

|                                   |            |                                  |                  |
|-----------------------------------|------------|----------------------------------|------------------|
| Product family                    | SAK Series | Type of connection               | Screw connection |
| Connection direction              | on side    | Number of levels                 | 1                |
| Number of connections             | 2          | No. of clamping points per level | 2                |
| Levels cross-connected internally | No         | Mounting rail                    | TS 32            |
| End cover plate required          | Yes        |                                  |                  |

### Classifications

|            |             |            |             |
|------------|-------------|------------|-------------|
| ETIM 3.0   | EC000897    | UNSPSC     | 30-21-18-11 |
| eClass 5.1 | 27-14-11-20 | eClass 6.2 | 27-14-11-20 |
| eClass 7.1 | 27-14-11-20 |            |             |

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**Technische Daten**

**Product information**

|                                 |   |
|---------------------------------|---|
| Descriptive text ordering data  | With AWG 6 and H07V-R10 conductors, an increased MD torque of 1.4 to 1.6 Nm should be used. |
| Descriptive text technical data | For AWG 8-7 and AWG 8-19, tightening torque is 1.21.4 Nm                                    |
| Descriptive text accessories    | When used with twin ferrules ZH 0.5 - ZH 4, the rated voltage is 690 V.                     |

**Approvals**

Approvals



|      |         |
|------|---------|
| ROHS | Conform |
|------|---------|